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APPLICATION NO. FILING DATE		ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/904,698	07/13/2001		Gary Ketner	03940055aa	4755
30743	7590	09/22/2004		EXAM	INER
WHITHAM	, CURTIS	HILL, MYRON G			
11491 SUNSI					
SUITE 340			ART UNIT	PAPER NUMBER	
RESTON, V	A 20190			1648	

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
•	Application No.						
Office A. Comp. Comp. and	09/904,698	KETNER, GARY					
Office Action Summary	Examiner	Art Unit					
	Myron G. Hill	1648					
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet	with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may ply within the statutory minimum of tid will apply and will expire SIX (6) Mutte. cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 02	July 2004.						
•	is action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 6-18 is/are pending in the application 4a) Of the above claim(s) 7-11, 17, and 18 is 5) Claim(s) is/are allowed. 6) Claim(s) 6, and 12-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are subject to restriction and are subject to by the Examing 10) The specification is objected to by the Examing 10) The drawing(s) filed on is/are: a) are applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	l/are withdrawn from cons l/or election requirement. her. ccepted or b) objected to the drawing(s) be held in abey action is required if the drawing	o by the Examiner rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in iority documents have bee au (PCT Rule 17.2(a)).	Application No en received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152)					

DETAILED ACTION

This action is in response to paper filed 26 July 2004.

This action is on claims 6 and 12-16.

Rejections Withdrawn

Claim Rejections - 35 USC § 112

Claims 6, and 12- 16 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims have been amended to recite the word "containing" certain elements.

Applicant has amended the claims to recite "comprising".

Claim Rejections - 35 USC § 103

Claims 6 and 12- 16 were rejected under 35 U.S.C. 103(a) as being unpatentable over Vollmer et al. (cited as Vollmer in the previous action).

The claims are drawn to a method of introducing into a cell DNA comprising E4 orf6 and E1B.

Applicant's arguments were persuasive and the rejection is withdrawn.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ramalingam et al. (cited in the last Office Action as Ramalingam) and Vollmer et al.

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Applicant's arguments were persuasive and the rejection is withdrawn.

New Rejections

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 12- 16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The instant claims are evaluated for enablement based on the Wands analysis. Many of the factors regarding undue experimentation have been summarized in *In re Wands*, 858 F.2d 731,8 USPQ2d 1400 (Fed.Circ.1988) as follows:

(1) the nature of the invention, (2) the state of the prior art, (3) the predictability or lack thereof in the art, (4) the amount of direction or guidance present, (5) the presence or absence of working examples, (6) the quantity of experimentation necessary, (7) the relative skill of those in the art, and (8) the breadth of the claims.

The claims are drawn to a method of treatment for cancer comprising administering and enoviral E4orf6 and E1B along with a chemotherapeutic agent or radiation. The prior art teaches both radiation and chemotherapeutic methods as well as

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adenoviral methods. Most work is done in vitro or in animal models and effective trsansfer of gene therapy related methods to humans is not routine in the art. Vollmer et al. teach the lack of predictability in that different cancers use or do not use p53, and not all cancer cells express p53. Furthermore, Vollmer et al. teach that chemotherapeutic agent plus adeno E4orf6 without E1B is effective in an additive way to treat cells (page 4371, column 2, lower part). The level of skill in the art is high. While laboratory experimentation is routine to some extent, there is no showing in the specification that the claimed treatment will provide more than an additive effect in the combination treatment.

The specification provides no specific guidance or working examples to show that the claimed treatment is effective or more effective than at least an additive effect seen by Vollmer *et al.* when E1B was not used. The specification provides no guidance that this method will work in humans to treat cancer.

The enabling disclosure is clearly not commensurate in scope with these claims. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. Clearly there is lack of guidance directing a skilled artisan to practice the instantly claimed methods. Without specific guidance or direction and /or working examples, one of ordinary skill in the art would not be able to reproducibly practice the invention as claimed, without undue experimentation.

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Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by Boyer et al.

Boyer *et al.* teach a method of inhibiting repair of double stranded DNA breaks in DNA comprising E4 and E1B adenoviral DNA regions (Introduction and Figure 1).

Conclusion

No claim is allowed.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myron G. Hill whose telephone number is 571-272-0901. The examiner can normally be reached on 9am-6pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Myron G. Hill Patent Examiner September 20, 2004

James C) House (1)